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XP POWER C10N

XP POWER C10N Non-Isolated DC/DC Converter

Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the XP POWER C10N Non-Isolated DC/DC Converter. Please read this manual thoroughly before attempting to install or operate the device. Retain this manual for future reference.



Image showing the physical unit of the XP POWER C10N Non-Isolated DC/DC Converter, typically displaying its casing and connection terminals.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the device or connected equipment.

- **Qualified Personnel:** Installation and servicing must be performed by qualified personnel only.
- **Electrical Shock Hazard:** This device operates with electrical voltages that can cause severe injury or death. Ensure all power sources are disconnected before installation, wiring, or maintenance.
- **Correct Wiring:** Verify correct input and output polarity and voltage levels before applying power. Incorrect wiring can damage the converter and connected devices.
- **Ventilation:** Ensure adequate ventilation around the converter to prevent overheating. Do not obstruct airflow.
- **Environmental Conditions:** Operate the converter within its specified environmental limits (temperature, humidity).
- **Load Capacity:** Do not exceed the maximum output current or power rating of the converter.

Overloading can lead to damage or failure.

3. SETUP

3.1 Unpacking and Inspection

Upon receiving the C10N converter, carefully unpack it and inspect for any signs of physical damage. If damage is found, do not proceed with installation and contact your supplier immediately.

3.2 Mounting

Mount the converter in a secure location that provides sufficient airflow for cooling. Ensure the mounting surface is stable and capable of supporting the converter's weight. Avoid mounting near heat sources or in enclosed spaces without ventilation.

3.3 Wiring Connections

Refer to the product datasheet for specific pin assignments and wiring diagrams. Ensure all connections are secure and correctly polarized. Use appropriate wire gauges for the expected current levels.

1. **Input Power:** Connect the DC input voltage source to the designated input terminals. Observe correct polarity (+IN, -IN).
2. **Output Power:** Connect the load to the designated output terminals. Observe correct polarity (+OUT, -OUT).
3. **Grounding:** Ensure proper grounding practices are followed according to local electrical codes and product specifications.

3.4 Initial Power-Up

Before applying power, double-check all wiring connections. Once verified, apply the specified input voltage. Monitor the output voltage and current to ensure proper operation. If any anomalies are observed, immediately disconnect power and troubleshoot.

4. OPERATING

The C10N converter is designed for continuous operation within its specified parameters. Once properly installed and powered, it will provide a stable DC output voltage.

- **Load Management:** Ensure the connected load does not exceed the converter's maximum output current or power rating.
- **Environmental Monitoring:** Maintain the operating environment within the specified temperature and humidity ranges to ensure optimal performance and longevity.
- **Output Monitoring:** Periodically verify the output voltage and current to confirm stable operation, especially in critical applications.

5. MAINTENANCE

The C10N converter is designed for minimal maintenance. However, periodic checks can help ensure long-term reliability.

- **Cleaning:** Keep the converter free from dust and debris. Use a soft, dry cloth for cleaning. Do not use

liquid cleaners or solvents.

- **Connection Checks:** Periodically inspect all wiring connections for tightness and signs of corrosion or damage.
- **Ventilation:** Ensure that ventilation openings remain clear and unobstructed.

6. TROUBLESHOOTING

If the converter is not functioning as expected, perform the following basic troubleshooting steps:

| Problem | Possible Cause | Solution |
|--------------------------|--|---|
| No output voltage | No input power Incorrect wiring Overload protection activated | Check input power source and connections. Verify wiring against datasheet. Reduce load, then cycle input power. |
| Output voltage unstable | Input voltage fluctuations Overload condition Poor connections | Ensure stable input power. Reduce load. Check all wiring connections for tightness. |
| Converter is overheating | Insufficient ventilation Overload condition High ambient temperature | Ensure adequate airflow around the unit. Reduce load. Relocate converter to a cooler environment. |

If the problem persists after performing these steps, contact XP POWER technical support.

7. SPECIFICATIONS

The following are key specifications for the XP POWER C10N Non-Isolated DC/DC Converter. For a complete list of detailed electrical and environmental specifications, please refer to the official product datasheet available on the XP POWER website.

- **Manufacturer:** XP POWER
- **Model:** C10N
- **ASIN:** B0D38GP8ZW
- **Date First Available:** May 3, 2024
- **Type:** Non-Isolated DC/DC Converter

8. WARRANTY AND SUPPORT

For information regarding the warranty period and terms for your XP POWER C10N converter, please refer to the official warranty statement provided with your purchase or visit the XP POWER official website. Technical support is available to assist with any questions or issues not covered in this manual.

Contact Information: Please visit the official XP POWER website for the most current contact details for technical support and customer service in your region.

